Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ TP: \_\_\_\_\_\_\_

HW#12: Finding points on Quadratics

Geometry

September 25th, 2015

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| **Expectations:**   * Use complete sentences when explaining your reasoning. * Show all your work. If your work is on a separate sheet of paper, **STAPLE IT**. * Why > How > What |

1.

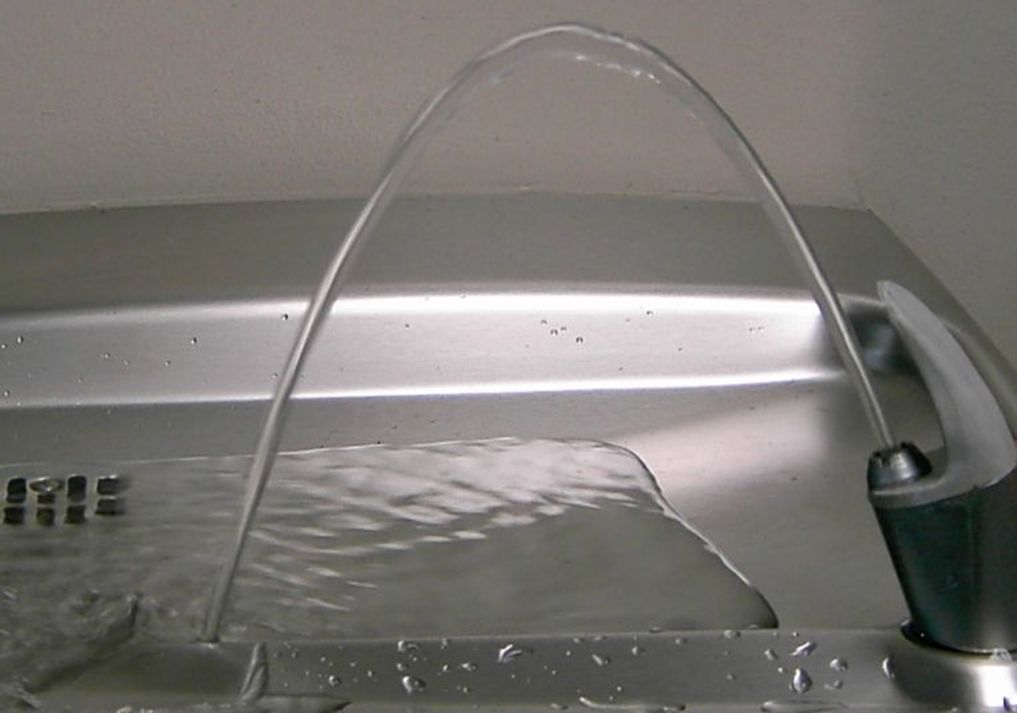
For each given vertex and point that lie on quadratic function, find another point that lies on the quadratic.

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| C:\Users\kramos\Dropbox\Math Materials - KMR\Images\HW1.PNG | C:\Users\kramos\Dropbox\Math Materials - KMR\Images\HW2.PNG | C:\Users\kramos\Dropbox\Math Materials - KMR\Images\HW3.PNG |

2.

a) Find the midpoint of the segment if *A* is located at (0,4) and *B* is located at (6,4)

b) Suppose points *A* and *B* lie on a quadratic function *f(x).* Find the location of the axis of symmetry for the function *f(x).* Explain your reasoning.

3.

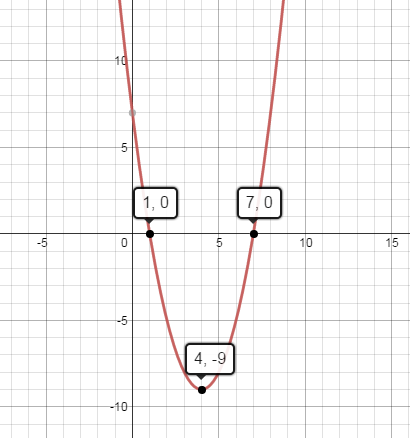
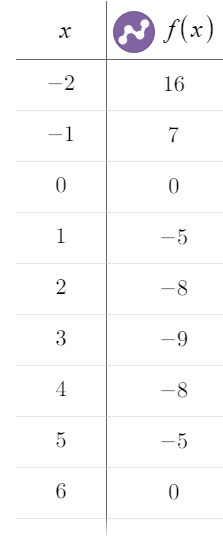
Suppose points A and C lie on the quadratic for this water fountain, and point B lies on the axis of symmetry.

If AB = 20x and BC = 4x+8, find the value of x.

**Key Quadratic Features**

On the graphs and tables below, label the: x-intercept(s), y-intercept, vertex, and axis of symmetry.

A.



B.

